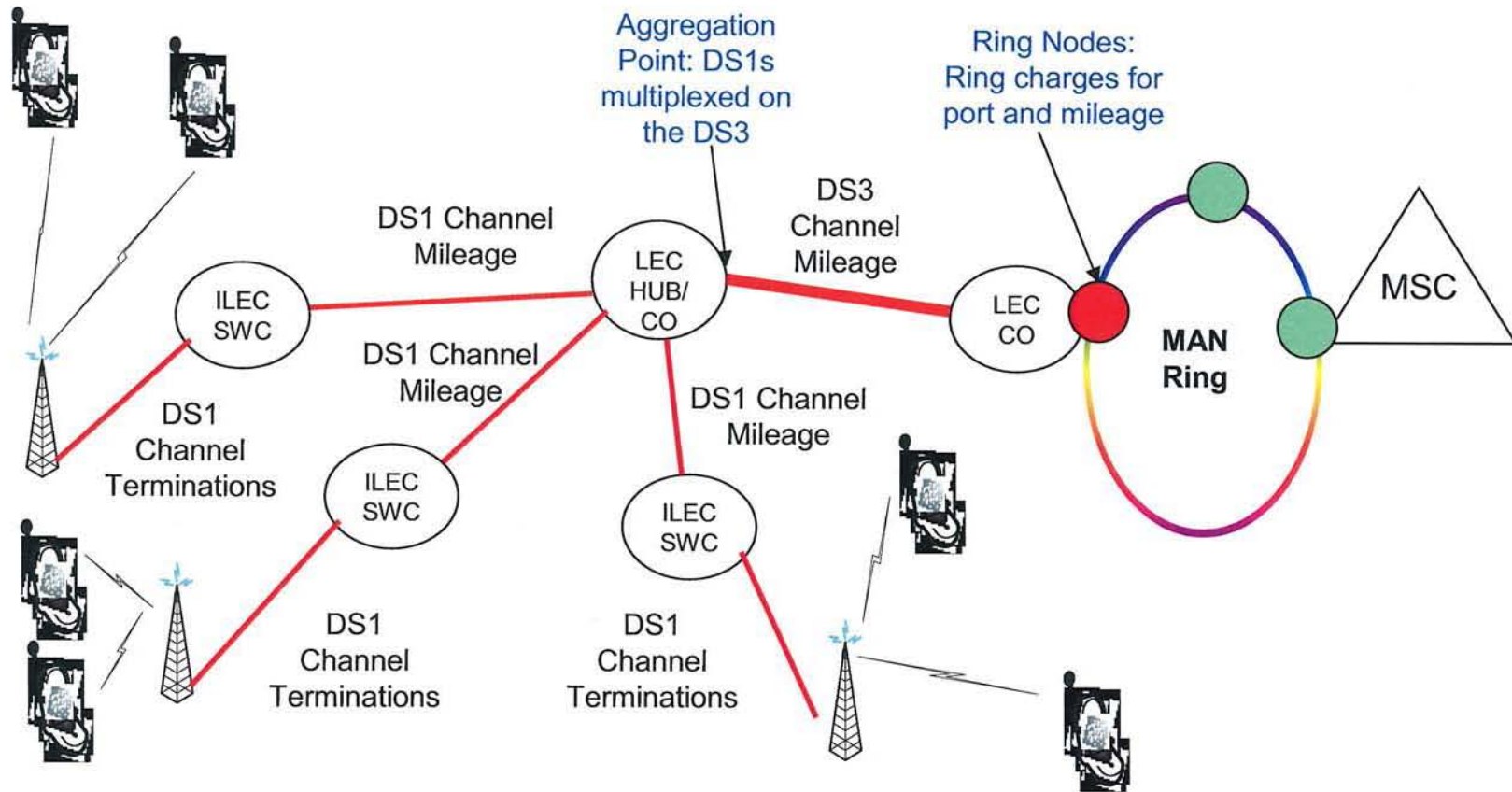


ATTACHMENT 1

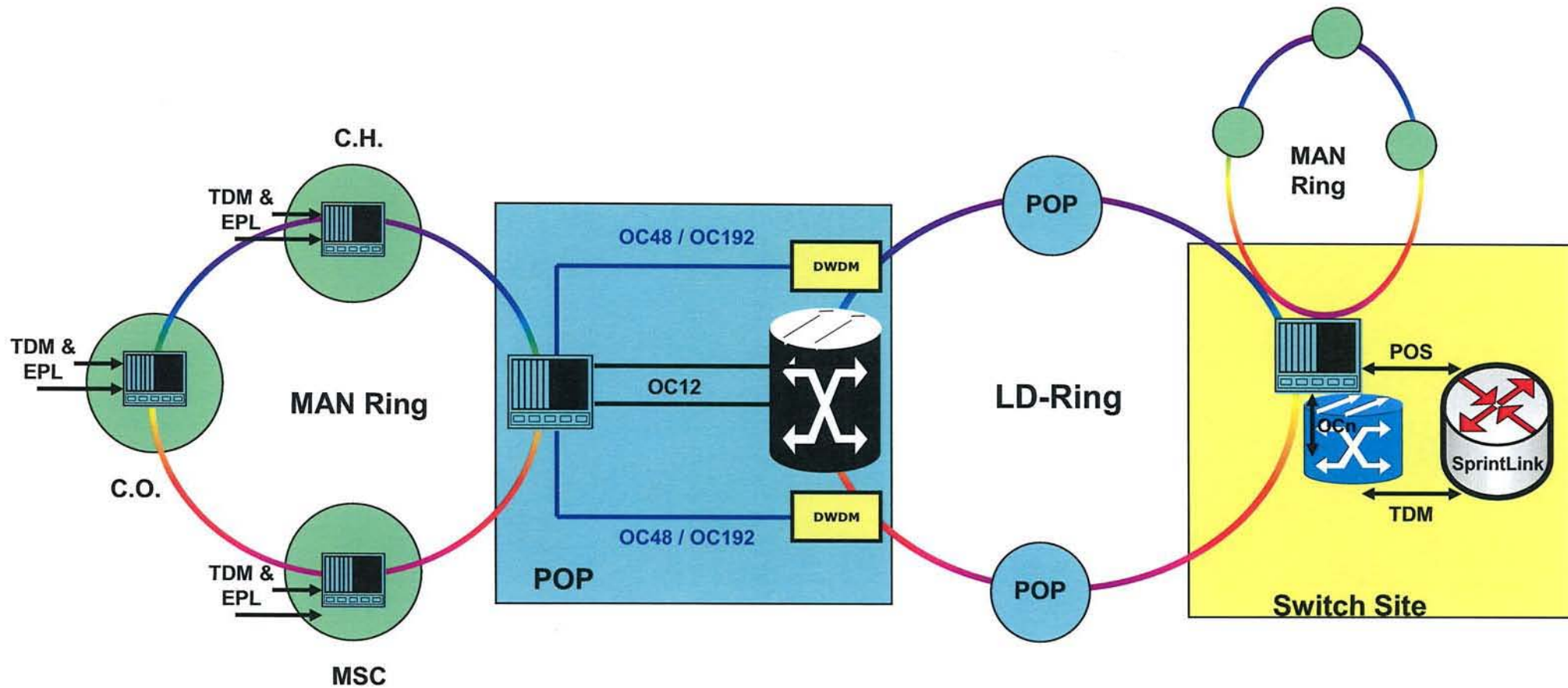
Standard Wireless Network Diagram



Facilities purchased from the ILEC in Red

ATTACHMENT 2

Metro & Core Transport Architecture



Cisco 15454 - Metro
Sonet & DWDM
Device



Sycamore SN3K - Long haul
small scale Sonet & Digital x-
connect Device



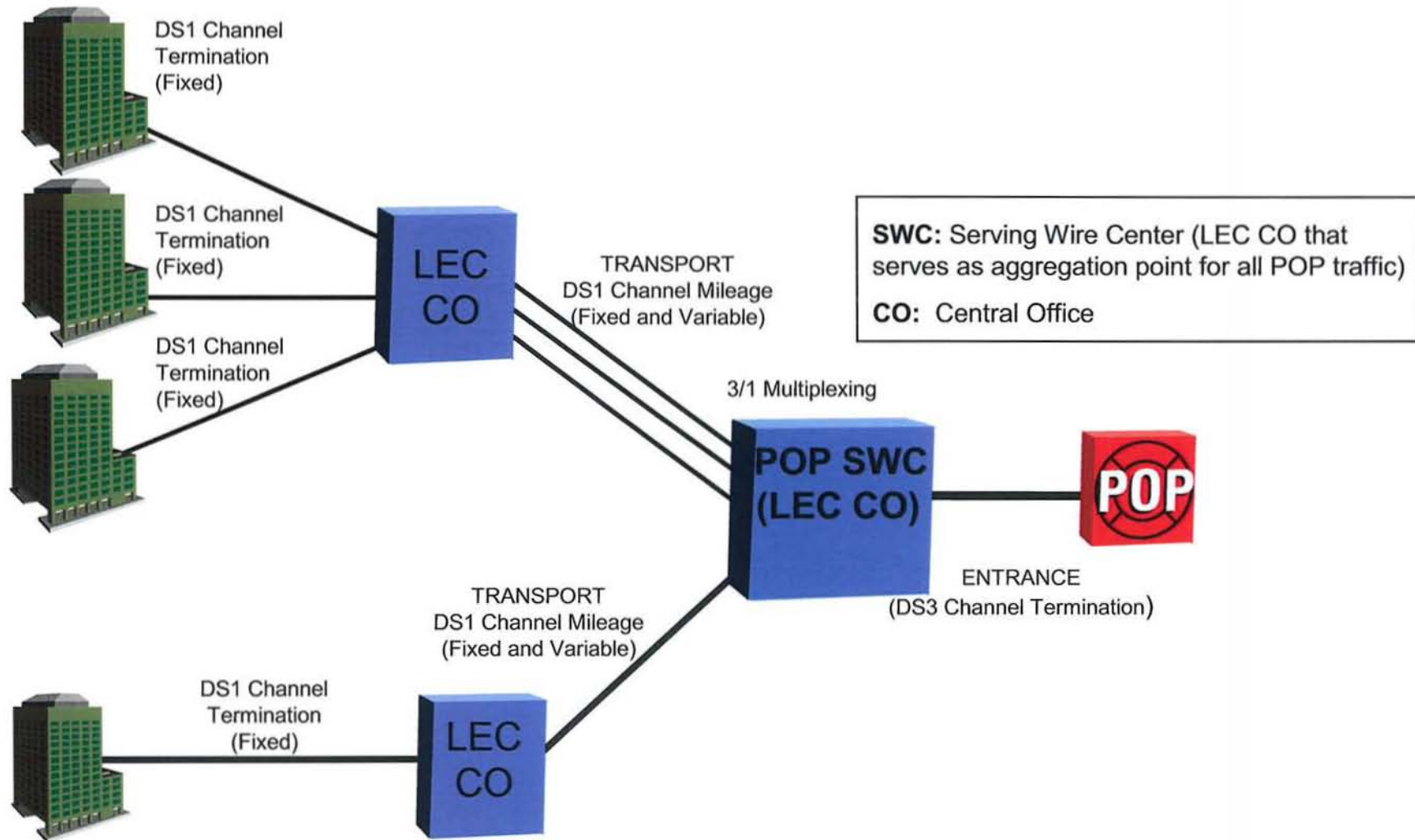
Sycamore SN16K - Long haul
large scale Sonet & Digital x-
connect Device



Ciena Long haul
Dense Wave
Division Mux

ATTACHMENT 3

Wireline Enterprise Customer Network Diagram



ATTACHMENT 4

Issue	
Basis for Commitment	Is the commitment on channel terminations only (and what level of service is required to be included) or is channel mileage a required commitment as well?
Setting Initial Commitment for Renewal	As a participant in the plan, what is required to continue participating in the plan when the initial term is expiring and the plan needs to be renewed.
Install NRCs Waived?	Does the commitment made in the plan provide any benefit/relief for the NRCs associated with new circuit installs?
Review Period	How often the LEC reviews the current counts against the commitment made.
New Commit Required @ Review?	At the time of the review, is the buyer required to increase the commitment made in the plan?
Buy Down Available?	The ability of the purchaser to pay the LEC to decrease the commitment by specified amounts.
Buy Down Calculation	Formula for calculating the cost to buy a commitment down.
Shortfall Calculation	Formula for calculating the penalty associated with being short in a plan.
Overage Penalty	Does the plan penalize the buyer for growing too much, thereby forcing the buyer to increase the commitment?
Overage Penalty Calculation	Formula for calculating the penalty associated with exceeding the commitment range in a plan.
Plan Termination Liability Calculation	Formula for calculating the cost to the buyer in the event the entire plan needs to be terminated.

LEC	AT&T - Midwest (Ameritech)	AT&T - Southwest (Southwestern Bell)	AT&T - West (Pacific Bell)
Tariff Reference	FCC 2, Section 7.4.13	FCC 73, Section 7.2.20	FCC 1, Section 7.4.18
Vol / Term Plan Name	Discount Commitment Plan (DCP) 3 or 5 Year Plan	Term Payment Plan (TPP) 1, 2, 3, 5 or 7 year Plan	Term Payment Plan (TPP) 1, 2, 3, 5 or 7 year Plan
Issue			
Basis for Commitment	DS1 Chan Terms only	DS1 Chan Terms only	DS1 Chan Terms only
Setting Initial Commitment for Renewal	90% of In Service Count	All in service DS1 chan terms the month prior to the commitment	All in service DS1 chan terms the month prior to the commitment
Install NRCs Waived?	No	Yes	Yes
Review Period	Monthly - notification provided and customer is allowed 90 days to address either shortfall or overage before penalties are assessed.	Monthly	Monthly
New Commit Required @ Review?	No	No	No
Buy Down Available?	Yes	Yes	Yes
Buy Down Calculation	A buy down is available by taking the number of channel terminations the customer is wanting to remove from the plan times the channel termination term plan rate the customer would have achieved at the time of removal times the number of months in service - i.e. pay back the benefit received.	Number of chan terms needing to be removed from the plan times the prevailing month to month chan term rate times the number of months remaining in the commitment.	Number of chan terms needing to be removed from the plan times the prevailing month to month chan term rate times the number of months remaining in the commitment.

LEC	AT&T - Midwest (Ameritech)	AT&T - Southwest (Southwestern Bell)	AT&T - West (Pacific Bell)
Tariff Reference	FCC 2, Section 7.4.13	FCC 73, Section 7.2.20	FCC 1, Section 7.4.18
Vol / Term Plan Name	Discount Commitment Plan (DCP) 3 or 5 Year Plan	Term Payment Plan (TPP) 1, 2, 3, 5 or 7 year Plan	Term Payment Plan (TPP) 1, 2, 3, 5 or 7 year Plan
Issue			
Shortfall Calculation	Buy up to the commitment level by taking the number of chan terms short times the DCP chan term rate	If customer is under 80% of the commitment, the shortfall is the chan term NRC (\$900) times the number of chan terms short of the 80%. This calculation will bill every month until customer is above the 80% level.	If customer is under 80% of the commitment, the shortfall is the chan term NRC (\$900) times the number of chan terms short of the 80%. This calculation will bill every month until customer is above the 80% level.
Overage Penalty	Yes	Yes	Yes
Overage Penalty Calculation	If customer has more chan terms than 150% of the total chan terms committed, all chan terms above the commitment level (not just above 150%) will be billed the MTM chan term rates. All other elements associated with the service will continue to bill the appropriate term plan rate.	If customer is over 124% of the commitment, the shortfall is the chan term NRC (\$900) times the number of chan terms over the 124%. This calculation will bill every month until number of chan terms in service is between the 80% and 124%.	If customer is over 124% of the commitment, the shortfall is the chan term NRC (\$900) times the number of chan terms over the 124%. This calculation will bill every month until number of chan terms in service is between the 80% and 124%.
Plan Termination Liability Calculation	Same as buy down - total number of chan terms committed times the difference between the DCP rate committed and the DCP rate the customer would have otherwise achieved by time in service times the number of months in service.	Total number of chan terms committed times the prevailing month to month rate times the number of months remaining in commitment.	Total number of chan terms committed times the prevailing month to month rate times the number of months remaining in commitment.

LEC	AT&T - West (Nevada Bell)	AT&T - East (Southern New England Telephone)	AT&T Southeast (BellSouth)
Tariff Reference	FCC 1, Section 7.11.5.2	FCC 39, Section 2.11.1.1	FCC 1, Section 2.4.8 (B)
Vol / Term Plan Name	Term Payment Plan (TPP) 1, 2, 3, 5 or 7 year Plan	Optional Payment Plan (OPP) 3 or 5 Years	Area Commitment Plan (ACP) 24 to 72 months
Issue			
Basis for Commitment	DS1 Chan Terms only	DS1 Chan Terms only	DS1 Chan Terms and Mileage
Setting Initial Commitment for Renewal	All in service DS1 chan terms the month prior to the commitment	All in service DS1 chan terms the month prior to the commitment	Any quantity requested by customer
Install NRCs Waived?	Yes	No	No
Review Period	Monthly	Monthly	Monthly
New Commit Required @ Review?	No	No	No
Buy Down Available?	Yes	Yes	No
Buy Down Calculation	Number of chan terms needing to be removed from the plan times the prevailing month to month chan term rate times the number of months remaining in the commitment.	Number of chan terms times the lowest prevailing zone 1 month to month recurring rate times the number of months remaining in the commitment.	N/A

LEC	AT&T - West (Nevada Bell)	AT&T - East (Southern New England Telephone)	AT&T Southeast (BellSouth)
Tariff Reference	FCC 1, Section 7.11.5.2	FCC 39, Section 2.11.1.1	FCC 1, Section 2.4.8 (B)
Vol / Term Plan Name	Term Payment Plan (TPP) 1, 2, 3, 5 or 7 year Plan	Optional Payment Plan (OPP) 3 or 5 Years	Area Commitment Plan (ACP) 24 to 72 months
Issue			
Shortfall Calculation	If customer is under 80% of the commitment, the shortfall is the chan term NRC (\$900) times the number of chan terms short of the 80%. This calculation will bill every month until customer is above the 80% level.	If customer is under 80% of the commitment, the shortfall is the lowest zone 1 NON recurring chan term rate times the number of chan terms short of the 80%. This calculation will bill every month until customer is above the 80% level.	Difference between the number committed and the number in service times 50% of the ACP rate.
Overage Penalty	Yes	Yes	N/A
Overage Penalty Calculation	If customer is over 124% of the commitment, the shortfall is the chan term NRC (\$900) times the number of chan terms over the 124%. This calculation will bill every month until number of chan terms in service is between the 80% and 124%.	If customer is over 124% of the commitment, the shortfall is the lowest prevailing zone 1 NON recurring chan term rate times the number of chan terms over the 124%. This calculation will bill every month until number of chan terms in service is between the 80% and 124%.	N/A
Plan Termination Liability Calculation	Total number of chan terms committed times the prevailing month to month rate times the number of months remaining in commitment.	Total number of chan terms in commitment times the lowest prevailing zone 1 month to month recurring rate times the number of months remaining in the commitment.	The prevailing ACP rate, per unit terminated, times the remaining months in the commitment times a factor. If the agreement has been in place for less than 12 months, the factor applied will be 40% and if the plan is terminated after 12 months, the factor applied will be 20%.

LEC	Qwest	Verizon West (fGTE)	Verizon West (fGTE)
Tariff Reference	FCC 1, Section 7.1.3 (B)	FCC 14, Section 5.6.14	FCC 14, Section 5.6.14
Vol / Term Plan Name Issue	Regional Commitment Plan (RCP) 4 Year Plan	Eight and Ten Yr Term Volume Plan (ETTVP) 8 or 10 Yr Plan	Term Volume Plan (TVP) 1, 2, 3, or 5 Yr Plan)
Basis for Commitment	DS1 and DS3	DS1 Chan Terms only	DS1 Chan Terms only
Setting Initial Commitment for Renewal	90% of in service count	90% of In Service Count	Any # Greater Than 2 Can Be Selected
Install NRCs Waived?	No	No	No
Review Period	Monthly	Annual	Annual
New Commit Required @ Review?	90% of in service count	Yes, to 90% of In Svc Count	Customer has the option of increasing the commitment level to current in service counts (annual true up allows for a 3% cushion). If the Customer does not increase the commitment, they can convert the increased # of chan terms to the monthly rate or commit them to a second TVP.
Buy Down Available?	Yes	No	Yes, when a shortfall penalty is assessed @ annual review, the # of chan terms in service becomes the commitment qty for the balance of the term or until a subsequent adjustment is required
Buy Down Calculation	1. Early Termination Liability charges apply according to tariff for each decreased circuit. AND 2. 50% * Average RCP Price * Remaining Months in RCP for each decreased circuit.	N/A	See Shortfall Calculation below

LEC	Qwest	Verizon West (fGTE)	Verizon West (fGTE)
Tariff Reference	FCC 1, Section 7.1.3 (B)	FCC 14, Section 5.6.14	FCC 14, Section 5.6.14
Vol / Term Plan Name	Regional Commitment Plan (RCP) 4 Year Plan	Eight and Ten Yr Term Volume Plan (ETTVP) 8 or 10 Yr Plan	Term Volume Plan (TVP) 1, 2, 3, or 5 Yr Plan)
Issue			
Shortfall Calculation	shortfall circuits * average price PLUS a forfeit of RCP Credit on shortfall circuits	Avg ETTVP MRC * # short * 6 months	[(Committed # * .97) - # in Svc] * Lowest State TVP MRC * 4 months
Overage Penalty	No	N/A	N/A
Overage Penalty Calculation	N/A	N/A	N/A
Plan Termination Liability Calculation	1. Early Termination Liability charges apply according to tariff for each circuit. AND 2. 50% * Average RCP Price * Remaining Months in RCP for each circuit.	If cxl'd in Yr 1, 100% of remaining Yr 1 months MRCs, plus 25% of remaining Yrs 2 8 (or 10) months MRCs; Extension Period - 25% of remaining months MRCs	1 Yr TVP - 50% of remaining portion of Yr 1 MRCs; 2 Yr TVP - If cxl'd in Yr 1, 50% of Yr 1 MRCs for months remaining, plus 5% of Yr 2 MRCs or if in Yr 2, 5% of remaining months; 3 Yr TVP - If cxl'd in Yr 1, 50% of Yr 1 MRCs for months remaining, plus 10% of Yrs 2 & 3 MRCs or if in Yr 2+, 10% of remaining months; 5 Yr TVP - If cxl'd in Yr 1, 50% of Yr 1 MRCs for months remaining, plus 15% of Yrs 2 & 3 MRCs or if in Yr 2+, 15% of remaining months.

LEC	Verizon West (fGTE Contel)	Verizon West (fGTE)	Verizon West (fGTE)
Tariff Reference	FCC 16, Section 7.2.1 G	FCC 14, Section 5.6.13	FCC 14, Section 5.6.19
Vol / Term Plan Name	Term Payment Plan (TPP) 1, 2, 3, or 5 Yr Plan	Rate Stability Plan (RSP) 3 or 5 Yr Plan	Term Volume Plan (TVP) 3, 5 or 7 Yr Plan
Issue			
Basis for Commitment	DS1 Chan Terms only	VG & DDS Chan Terms only	DS3 Chan Terms only
Setting Initial Commitment for Renewal	Any # greater than 125 for a national plan	500 Chan Term minimum commitment	20 Chan Term minimum
Install NRCs Waived?	No	No	No
Review Period	Annual	Annual	Annual
New Commit Required @ Review?	commitment level to current in service counts (annual true up allows for a 2% cushion below or a 5% cushion above). If the Customer does not increase the commitment, they can convert the increased # of chan terms to the monthly rate.	If within 25% of commitment, no change is required; if exceeds 25%, must increase commitment or circuits will be converted to MTM rates	Annual true up allows for a 3% cushion below or a 30% cushion above. If the Customer exceeds 30% threshold, the commitment is automatically reset by 50% of the amount that the original commitment is exceeded by.
Buy Down Available?	Yes	No	Yes
Buy Down Calculation	The calculation is not very clear in the tariff.	N/A	# short * 20% * MRC * #of months left in the commitment

LEC	Verizon West (fGTE Contel)	Verizon West (fGTE)	Verizon West (fGTE)
Tariff Reference	FCC 16, Section 7.2.1 G	FCC 14, Section 5.6.13	FCC 14, Section 5.6.19
Vol / Term Plan Name	Term Payment Plan (TPP) 1, 2, 3, or 5 Yr Plan	Rate Stability Plan (RSP) 3 or 5 Yr Plan	Term Volume Plan (TVP) 3, 5 or 7 Yr Plan
Issue			
Shortfall Calculation	Yr 1 = [(Committed # * .98) - # in Svc] * MRC * 4 months + [(Committed # * .98) - # in Svc] * 10% of the MRC for the remaining months; Yr 2 = [(Committed # * .98) - # in Svc] * 10% of the MRC for 4 months + [(Committed # * .98) - # in Svc] * 10% of the MRC for the remaining months	# short * unweighted avg MRC * 1 month	TVP rate * # short * 12 months
Overage Penalty	N/A	N/A	N/A
Overage Penalty Calculation	N/A	N/A	N/A
Plan Termination Liability Calculation	Unclear; not defined in the tariff language	Unclear; not defined in the tariff language	Yr 1 = 100% of MRC for # chan terms left + 15% of MRC for # chan terms left in months 13+; Yr = 15% of MRC for # chan terms left for remaining commitment. TISC and CTISC can reduce liability.

LEC	Verizon East (NYNEX & Bell Atl)	Verizon East (NYNEX & Bell Atl)	Verizon (All Regions)
Tariff Reference	FCC 1, Section 7.2.13 & FCC 11, Section 7.2.16	FCCs 1 & 11, Section 25.1	FCCs 1, 11, 14 & 16 (Section 25.3.1 in FCC 1)
Vol / Term Plan Name	Facilities Management Service (FMS) MTM, 3, or 5 Yr Plan	Commitment Discount Plan (CDP) 2, 3, 5, or 7 Yr Plan	National Discount Plan (NDP) 5 Yr Only
Issue			
Basis for Commitment	VG/DDS, DS1 and DS3 EF and Transport	VG/DDS, DS1 and DS3	DS1 and DS3 Chan Terms and Mileage require separate commitments
Setting Initial Commitment for Renewal	100% of in service DS0e	90% of in service count for DS3 and DS1; 75% of in service count for VG and DDS	Can be set at either 85% or 90% of in service count for each rate element; discount is greater with a 90% commit
Install NRCs Waived?	Yes	Reduced to \$1.00	Reduced to \$1.00
Review Period	Annual	Semi-Annual	Annual
New Commit Required @ Review?	No, but must maintain 90% of commitment	If exceeds 130% of commitment, must increase commitment to 90% of current in svc count for DS1/DS3 or 75% for VG/DDS.	If exceeds 160% of commitment, must increase commitment to 85% or 90% of current in svc count (corresponding to original commit).
Buy Down Available?	Yes	Yes, but only applies to VG & DDS ckts	No
Buy Down Calculation	Pay the TL on the # short	N/A	N/A

LEC	Verizon East (NYNEX & Bell Atl)	Verizon East (NYNEX & Bell Atl)	Verizon (All Regions)
Tariff Reference	FCC 1, Section 7.2.13 & FCC 11, Section 7.2.16	FCCs 1 & 11, Section 25.1	FCCs 1, 11, 14 & 16 (Section 25.3.1 in FCC 1)
Vol / Term Plan Name	Facilities Management Service (FMS) MTM, 3, or 5 Yr Plan	Commitment Discount Plan (CDP) 2, 3, 5, or 7 Yr Plan	National Discount Plan (NDP) 5 Yr Only
Issue			
Shortfall Calculation	# short * avg DS0e MRC * 12 months	# short * avg MRC * 6 months	# short * avg MRC * 12 months
Overage Penalty	N/A	N/A	N/A
Overage Penalty Calculation	N/A	N/A	N/A
Plan Termination Liability Calculation	If cxl'd in Yr 1 = 100% of the MRC for 1st 12 months, plus 20% MRC for remaining term; If cxl'd in Yr 2 = 20% of MRC for remaining term.	The lesser of: A) # short * 50% * (# months remaing - TISC) or B) # short * (subsribed term rate - term rate satisified) * (# months remaining - TISC)	Yr 1 = 100% of yr 1 remaining + 50% yrs 2 -5; Yr 2 = 50% of time remaining; Yr 3 = 25% of time remaining; Yr 4 = 15% of time remaining; Yr 5 = 10% of time remaining.

LEC	Cincinnati Bell	Embarq	Embarq
Tariff Reference	FCC 35, Section 7.4.12	FCC 1, Section 7.4.16 (A)	FCC 1, Section 7.4.11 (A)
Vol / Term Plan Name	Discount Commitment Program (DCP) 3 or 5 Years	Premier Term Discount Plan (PTDP) 5 Year Plan	Term Discount Plan (TDP) 3, 4 or 5 Year Plan
Issue			
Basis for Commitment	DS1 Chan Terms	DS1 equivalents	Digital Data to SONET Services - on a per state or national level selected
Setting Initial Commitment for Renewal	90% of total in service chan terms (or more at customer discretion)	100% of in-service count if greater than current commitment	Customer specified commitment of all in service circuits
Install NRCs Waived?	No	N/A	No
Review Period	Monthly - notification provided and customer is allowed 90 days to address either shortfall or overage before penalties are assessed.	Monthly	90 Day Review Period; then monthly
New Commit Required @ Review?	No	Yes	N/A
Buy Down Available?	Yes	No	Yes
Buy Down Calculation	A buy down is available by taking the number of channel terminations the customer is wanting to remove from the plan times the channel termination term plan rate the customer would have achieved at the time of removal times the number of months in service - i.e. pay back the benefit received.	N/A	1) Reduction of circuits committed = termination liability charges * terminated circuits from plan 2) Partial TDP Service removal from plan = 50% TDP MRC * remaining months in TDP

LEC	Cincinnati Bell	Embarq	Embarq
Tariff Reference	FCC 35, Section 7.4.12	FCC 1, Section 7.4.16 (A)	FCC 1, Section 7.4.11 (A)
Vol / Term Plan Name	Discount Commitment Program (DCP) 3 or 5 Years	Premier Term Discount Plan (PTDP) 5 Year Plan	Term Discount Plan (TDP) 3, 4 or 5 Year Plan
Issue			
Shortfall Calculation	Buy up to the commitment level by taking the number of chan terms short times the DCP chan term rate	By state: (DS1e commitment - current DS1e) * state shortfall MRC	<90% of commitment * termination liability charges plus the commitment level will be reset to 110% of current in-service circuits.
Overage Penalty	N/A	N/A	Yes
Overage Penalty Calculation	N/A	N/A	>130% of commitment are billed at non-discounted month-to-month rates
Plan Termination Liability Calculation	Same as buy down - total number of chan terms committed times the difference between the DCP rate committed and the DCP rate the customer would have otherwise achieved by time in service times the number of months in service.	Total commitment counts * termination charge MRC * months remaining in the PTDP	50% TDP MRC * remaining months in TDP per circuit

LEC	Hawaiian Telcom	FairPoint (ME, VT & NH)	FairPoint (ME, VT & NH)
Tariff Reference	FCC 1, Section 5.6.14	FCC 1, Section 7.2.16	FCC 1, Section 25.1
Vol / Term Plan Name	Term Volume Plan (TVP) 1, 2, 3, or 5 Yr Plan	Facilities Management Service (FMS) MTM, 3, or 5 Yr Plan	Commitment Discount Plan (CDP) 2, 3, 5, or 7 Yr Plan
Issue			
Basis for Commitment	DS1 Chan Terms only	VG/DDS, DS1 and DS3 EF and Transport	VG/DDS, DS1 and DS3
Setting Initial Commitment for Renewal	Any # Greater Than 2 Can Be Selected	100% of in service DS0e	90% of in service count for DS3 and DS1; 75% of in service count for VG and DDS
Install NRCs Waived?	No	Yes	Reduced to \$1.00
Review Period	Annual	Annual	Semi-Annual
New Commit Required @ Review?	Customer has the option of increasing the commitment level to current in service counts (annual true up allows for a 3% cushion). If the Customer does not increase the commitment, they can convert the increased # of chan terms to the monthly rate or commit them to a second TVP.	No, but must maintain 90% of commitment	If exceeds 130% of commitment, must increase commitment to 90% of current in svc count for DS1/DS3 or 75% for VG/DDS.
Buy Down Available?	Yes, when a shortfall penalty is assessed @ annual review, the # of chan terms in service becomes the commitment qty for the balance of the term or until a subsequent adjustment is required	Yes	Yes, but only applies to VG & DDS ckts
Buy Down Calculation	See Shortfall Calculation below	Pay the TL on the # short	N/A

LEC	Hawaiian Telcom	FairPoint (ME, VT & NH)	FairPoint (ME, VT & NH)
Tariff Reference	FCC 1, Section 5.6.14	FCC 1, Section 7.2.16	FCC 1, Section 25.1
Vol / Term Plan Name	Term Volume Plan (TVP) 1, 2, 3, or 5 Yr Plan	Facilities Management Service (FMS) MTM, 3, or 5 Yr Plan	Commitment Discount Plan (CDP) 2, 3, 5, or 7 Yr Plan
Issue			
Shortfall Calculation	[(Committed # * .97) - # in Svc] * Lowest State TVP MRC * 4 months	# short * avg DS0e MRC * 12 months	# short * avg MRC * 6 months
Overage Penalty	N/A	N/A	N/A
Overage Penalty Calculation	N/A	N/A	N/A
Plan Termination Liability Calculation	1 Yr TVP - 50% of remaining portion of Yr 1 MRCs; 2 Yr TVP - If cxl'd in Yr 1, 50% of Yr 1 MRCs for months remaining, plus 5% of Yr 2 MRCs or if in Yr 2, 5% of remaining months; 3 Yr TVP - If cxl'd in Yr 1, 50% of Yr 1 MRCs for months remaining, plus 10% of Yrs 2 & 3 MRCs or if in Yr 2+, 10% of remaining months; 5 Yr TVP - If cxl'd in Yr 1, 50% of Yr 1 MRCs for months remaining, plus 15% of Yrs 2 & 3 MRCs or if in Yr 2+, 15% of remaining months.	If cxl'd in Yr 1 = 100% of the MRC for 1st 12 months, plus 20% MRC for remaining term; If cxl'd in Yr 2 = 20% of MRC for remaining term.	The lesser of: A) # short * 50% * (# months remainig - TISC) or B) # short * (subsribed term rate - term rate satisifed) * (# months remaining - TISC)